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Polyamide laminated films prodn. - by inflation co-extrusion of polyamide-based copolymer and ionic polymer based on an polyolefin

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Number of Countries: 001 Number of Patents: 001

Patent Family:

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Priority Applications (No Type Date): JP 76117467 A 19760930

Abstract (Basic): JP 53042256 A

Prodn. of polyamide laminated films with improved transparency comprises inflation co-extrusion of a polyamide based copolymer composed of 70-97 wt. % repeating units of formula

-OC(CH₂)₄CONH(CH₂)₆NH- (I), and 30-3wt.% repeating units of formula

-OC(CH₂)₅NH- (II), with a relative viscosity 40-150 and an ionic copolymer based on an olefin.

Ionic copolymer based on an olefin is e.g., a copolymer from metal salt of acrylic acid or methacrylic acid and an olefin. Lubricating agents such as ethylene bis-stearylamine, metal salts of stearic acid, hydroxystearic acid, etc. are pref. used during extrusion at a rate of 0.02-0.3-wt. %.

The process produces laminated films with a high m. pt., improved gas barrier and physical strength as well as improved heat sealability, moisture barrier and transparency, while preventing gelation due to thermal degradation. The films with suitable degree of flexibility are useful for packaging for food, pharmaceuticals, cosmetics, etc.

Title Terms: POLYAMIDE; LAMINATE; FILM; PRODUCE; INFLATE; CO; EXTRUDE;

POLYAMIDE; BASED; COPOLYMER; ION; POLYMER; BASED; POLYOLEFIN

Index Terms/Additional Words: PACKAGE; FOOD; PHARMACEUTICAL; COSMETIC

Derwent Class: A23; A60; E19

International Patent Class (Additional): B29D-007/02

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